Ontario

Ministry of
Northern Development
and Mines

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

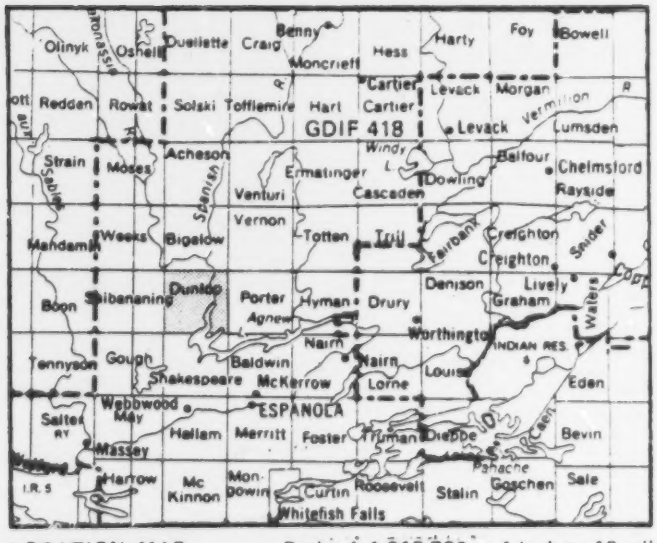
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 418

DUNLOP TOWNSHIP

DISTRICT OF SUDBURY

Compiled by the Staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP Scale: 1:1 013 760 or 1 inch to 16 miles

88-02290/

NTS Number 41 I/5

Mining Claim Map Number G.3002

This project is part of the Canada-Ontario Mineral Development Agreement (COMDA), which is a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey

1988: Dunlop Township, District of Sudbury; Ontario Geological Survey, Geological Data Inventory Folio 418, compiled by the staff of the Resident Geologist's Office, Sudbury, 16p. and 2 maps.

Original Compilation by: Jerome, Lucille, June 15, 1987

Date	Page Revised	Revised by

Date	Page Revised	Revised by

DUNLOP TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map 1
Exploration Data Map 1
Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	L.J.
2	Assessment Files Research Office, Toronto	N.A.	L.J.
3	ODM General Index; 9 Volumes	Yes	L.J.
4	Catalogue of Airborne Geophysical Surveys (ODM)	Yes	L.J.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	No	L.J.
6	ODM Industrial Mineral Reports	No	L.J.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	L.J.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	L.J.
9	Newspaper Clippings File	Yes	L.J.
10	GSC Index to Publications	Yes	L.J.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	L.J.
12	OGS Index Maps	Yes	L.J.
13	Source Mineral Deposit Records (O.G.S.), Mineral Occurrences File	Yes	L.J.
14	Author - Subject Articles File	Yes	L.J.
15	Miscellaneous Papers: ODM & OGS	Yes	L.J.
16	ODM Geological Circulars: OGS Study Series, Reports	Yes	L.J.
17	ODM Preliminary Reports: ODM Bulletins	No	L.J.
18	ODM – OGS Open File Reports	Yes	L.J.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	L.J.
20	OGS Aggregate Resources Inventory Papers	No	L.J.
21	OGS Mineral Potential Maps	Yes	L.J.
22	Theses on File, Sudbury	Yes	L.J.
23	Aerial Photographs on File, Sudbury	Yes	L.J.

METALS AND MINERALS REFERENCES LIST

- △ anh. . . . . .Anhydrite
- △ ank. . . . . .Ankerite
- △ anna . . . . . Annabergite
- △ ap. . . . . .Apatite
- △ arg . . . . . Argentite
- △ As . . . . . .Arsenic
- △ asp . . . . . .Arsenopyrite
- △ asb . . . . . .Asbestos
- △ ba. . . . . .Barite
- △ be. . . . . Beryl
- △ Bi. . . . . Bismuth
- △ bn . . . . . .Bornite
- △ bran . . . . . .Brannerite
- △ bruc . . . . . .Brucite
- △ Cd . . . . . Cadmium
- △ calc. . . . . Calcite
- △ carb . . . . . .Carbonate
- △ cel . . . . . .Celestite
- △ cc. . . . . .Chalcocite
- ▲ cp. . . . . .Chalcopyrite
- △ ch. . . . . .Chert
- △ clay . . . . . .Clay
- △ Co . . . . . Cobalt
- △ cob. . . . . Cobaltite
- △ cb. . . . . .Columbite
- △ Cu . . . . . .Copper
- △ cor . . . . . Corundum
- △ dol . . . . . Dolomite
- △ ep. . . . . Epidote
- △ ery . . . . . Erythrite
- △ fel . . . . . .Feldspar
- △ fl . . . . . .Fluorite (flurospar)
- △ fu. . . . . .Fuchsite
- △ gn. . . . . Galena
- △ gt . . . . . Garnet
- △ goe . . . . . .Goethite
- △ Au . . . . . Gold
- △ gf . . . . . .Graphite
- △ gl . . . . . Gravel
- △ gyp. . . . . Gypsum
- △ hem . . . . . Hematite
- △ il . . . . . .Ilmenite
- △ Fe . . . . . .Iron
- △ IF. . . . . Iron Formation
- △ jas . . . . . Jasper
- △ kaol . . . . . .Kaolinite (kaolin)
- △ ky . . . . . Kyanite
- △ Pb . . . . . Lead
- △ lim . . . . . Limonite
- △ Li. . . . . Lithium
- △ mgst . . . . . .Magnesite
- △ mag . . . . . .Magnetite
- △ mc . . . . . .Malachite
- △ Mn . . . . . Manganese
- △ mb . . . . . .Marble
- △ mar. . . . . Marcasite
- △ ma . . . . . .Marl
- △ mi . . . . . Mica
- △ ml . . . . . .Millerite
- △ mo . . . . . .Molybdenite
- △ Mo . . . . . .Molybdenum
- △ mon . . . . . Monazite
- △ ne. . . . . Nephelite (nepheline)
- △ nc. . . . . .Niccolite
- △ Ni. . . . . Nickel
- △ Nb . . . . . .Niobium
- △ Pd . . . . . .Palladium
- △ peat . . . . . .Peat
- △ pent . . . . . .Pentlandite
- △ Pt. . . . . .Platinum
- △ py . . . . . .Pyrite
- △ pyl . . . . . Pyrochlore
- △ pyrl . . . . . .Pyrolusite
- ▲ po . . . . . .Pyrrhotite
- △ q . . . . . .Quartz
- △ qcv . . . . .Quartz carbonate vein
- △ ra. . . . . .Radioactive minerals
- △ RE . . . . . .Rare Earths
- △ sd. . . . . Sand
- △ sgl . . . . . Sand and gravel
- △ ss . . . . . .Sandstone
- △ scap . . . . . Scapolite
- △ shee . . . . . .Scheelite
- △ serp . . . . . Serpentine
- △ sh. . . . . .Shale
- △ sid . . . . . Siderite
- △ si . . . . . .Silica
- △ Ag . . . . . .Silver
- △ sl . . . . . Slate
- △ sm . . . . . .Smaltite
- △ sod. . . . . Sodalite
- △ spec . . . . . Specularite
- △ sp. . . . . .Sphalerite
- △ spd. . . . . .Spodumene
- △ staur. . . . . .Staurolite
- △ stib. . . . . Stibnite
- △ st . . . . . .Stone
- △ talc. . . . . .Talc
- △ Te . . . . . .Tellurium
- △ td. . . . . Tetrahedrite
- △ th. . . . . .Thorite
- △ Th . . . . . .Thorium
- △ thuc . . . . . Thucholite
- △ ti . . . . . Titanite
- △ Ti. . . . . Titanium
- △ tour . . . . . .Tourmaline
- △ trap . . . . . .Trap rock
- △ W. . . . . Tungsten
- △ uran . . . . . Uraninite
- △ U . . . . . .Uranium
- △ verm . . . . . .Vermiculite
- △ Y . . . . . Yttrium
- △ Zn . . . . . .Zinc
- △ zr. . . . . Zircon

S. . . . . .Sulphide

cv. . . . . .Covellite

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

DUNLOP TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Broulan Reef Mines Ltd.	po, cp	--	--	GR 139, pp. 40-41

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1	Broulan Reef Mines Ltd. (Baldwin 0038)								67	67	67									
2	Broulan Reef Mines Ltd. (Baldwin 0044-A1)							67												
3	Bye, C. E. and Patrie, J. P. (see Note No. 1 p. 8)					83														
3	Kennco Explorations Ltd. (see Note No. 2 p. 8)				59															
4	Falconbridge Nickel Mines Ltd. (Dunlop 0010)				69															
5	Ontario Nickel Mines Ltd. (Baldwin 0043-C1)				53							53[1]								
6	Rio Algom Exploration Inc. (Dunlop 0011)				83	83														
7	Rio Algom Exploration Inc. (Dunlop 0012)	83										83	83							
8	Rio Algom Exploration Inc. (Dunlop 0012)					83														
9	Rio Algom Exploration Inc. (Dunlop 0012)					83														

[1] No Data

GDIF FORM NO. 2

DUNLOP TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	Kennco Explorations Ltd.	?	1959	?	?	?	25		
2	Falconbridge Nickel Mines Ltd.	DUN-100	1969	264	55	108	380	S, py	
3	Ontario Nickel Mines Ltd.	?	1953	2 holes - total length drilled 1140 feet					
4	Rio Algom Exploration Inc.	WB-1	1983	135	55	6	60	po,py,cp,mag	Au,Ag,Cu,As
5		WB-2	1983	070	55	5	58	po, py, cp	Au,Ag,Cu,As, Ni
6		WB-3	1983	045	55	0	88	po, py, cp	Au, Cu, As
7		WB-4	1983		90	0	31	po,py,cp,mag	Au, Cu, As
7		WB-5	1983	105	45	0	29	po,py,cp,mag	Au, Cu, As
8		WB-6	1983	360	60	5	136	po,py,cp,hem	Au
9		WB-7	1983	360	55	3	65	po, py, cp	Au

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1	Lockwood Survey Corporation (Huntec Limited) Broulan Reef Mines Ltd.	Airborne Electromagnetic Airborne Magnetic Airborne Radiometric	150'	N - S	1/12 mile

GDIF FORM NO. 4

DUNLOP TOWNSHIP

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

Note No. 1 In 1983, C. E. Bye and J. P. Patrie sampled some old sulphide pits (Ref.: Dunlop 0012).

Note No. 2 While prospecting for copper-nickel mineralization, Kennco Exploration Ltd. drilled a 25 foot hole in the area in 1959 (Ref.: Dunlop 0012).

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

Sudbury

Broulan Reef Mines Ltd.

Northern Miner	May 11, 1967
	March 18, 1967
	January 5, 1967

ODM GENERAL INDEX SEARCH

Words searched:

AGNEW LAKE
BROULAN REEF MINES LTD.
BYE, C. E.
DUNLOP TOWNSHIP
FALCONBRIDGE NICKEL MINES LTD.
KENNCO EXPLORATIONS LTD.
KERR LAKE
ONTARIO NICKEL MINES LTD.
PATRIE, J. P.
RIO ALGOM EXPLORATION INC.
SPANISH RIVER

Index Volume	Listing:	Report Volume	Part	Page
3	Dunlop Tp., Sud.			
	Sand and gravel pit	38	1	44
3	Spanish River, L. Huron			
	Rocks	38	7	33
	Terraces	38	7	54
4	Ontario Nickel Mines Ltd.			
	Incorporated	53	1	46
5	Agnew Lake, Spanish R.			
	Glacial deposits	61	4	22
	Rocks	61	4	10,12,18
	breccia, notes and photo	61	4	20, 21
7	Agnew Lake, Spanish R.			
	Access	GR 5		2
	Glacial deposits	GR 5		23
7	Agnew Lake Area, N. of Espanola			
	Nickel-copper deposits	GR34		31
	Rocks	GR 1		6, 8, 9
	Notes and sketch map	GR34		21, 27
	Structure	GR 1		11, 12
8	Agnew Lake			
	Espanola area, Sudbury Dist.	MP17		77, 79
		MP43		64
8	Dunlop & Shakespeare tps., Sudbury Dist.			
	Summary of field work, 1970 by			
	K. D. Card & P. Palonen	MP43		61-64
9	Agnew Lake Area, Algoma & Sudbury Dist.			
	Geology of the Shakespeare-Dunlop area	GR139		
	Uranium/thorium	MP65		31
9	Broulan Reef Mines Ltd.			
	Shakespeare & Dunlop tps., Sudbury Dist.	GR 139		38,40, 41, 45

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

GDIF FORM NO. 8

DUNLOP TOWNSHIP

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K. D.	1971	Panache Lake Area, West Part	O.D.M. Map P.668	1" = 1 mile
	1978	Sudbury-Manitoulin Area	O.G.S. Map 2360	1" = 2 miles
Card, K. D., et al	1970	Dunlop Township	O.D.M. Map P.613	1" = ¼ mile
Card, K. D., Lumbers, S. B.	1974, 75	Sudbury-Cobalt Geological Compilation (revised)	O.G.S. Map 2361	1" = 4 miles
Card, K. D., Palonen, P.	1976	Dunlop and Shakespeare Townships	O.D.M. Map 2313	1" = ½ mile
Thomson, J. E.	1961, 68	Espanola Sheet	O.D.M. Map P.105	1" = 2 miles
		GEOPHYSICAL MAPS		
D.O.M.	1952	Dunlop Township	A53	1" = ¼ mile
G.S.C. - O.D.M.	1965	Aeromagnetic Map - Espanola	1523G	1" = 1 mile
Gupta, V. K.	1981	Bouguer Gravity and Generalized Geological Map of the Sudbury-Onaping Lake Area	O.G.S. Map P.2482	1:100,000
O.D.M. - G.S.C.	1965	Aeromagnetic Map - Sudbury Sheet	7067G	1" = 4 miles
	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey, Sudbury	Map P.1610	1:250,000
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
E.M.R.	1975	Topographic Map, Espanola		1:50,000

GDIF FORM NO. 9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Gartner, J. F.	1978 1980	N.O.E.G.T.S. Data Base Map, Espanola N.O.E.G.T. Study 99, Espanola Area	Map 5002	1:100,000
		MINERAL POTENTIAL MAPS		
Springer, J.	1977	Ontario Mineral Potential, Northern Part of Sudbury Sheet and Part of North Bay Sheet	O.G.S. Map P.1512	1:250,000
		GEOCHEMICAL		
		No data available, June 11, 1987		
		GEOLOGICAL REPORTS AND MAPS		
Bell, R.	1893	Explorations North of the Manitoulin Island Sheet, Ontario	G.S.C. AR	pp. 33-39
Card, K. D.	1975	Geology of the Panache Lake Area, Dist. of Sudbury and Manitoulin	OFR 5123	
	1968	Economic Geology of the Espanola-Whitefish Falls Area	OFR 5017	
	1978	Sudbury-Manitoulin Area, Districts of Sudbury and Manitoulin	O.D.M. GR 166 O.D.M. Map 2360	1" = 2 miles
Card, K. D., Palonen, P. A.	1976	Geology of the Dunlop-Shakespeare Area	O.D.M. GR 139 O.D.M. Map 2313	1" = ¼ mile
Card, K. D., Innes, D. G, and Debicki, R. L.	1977	Stratigraphy, Sedimentology and Petrology of the Huronian Supergroup in the Sudbury-Espanola Area	O.G.S. Study 16	
Collins, W. H.	1925	North Shore of Lake Huron	G.S.C. Mem. 143	

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Edgar, A. D.	1986	Geochemistry and Economic Potential of the Nipissing Diabase, Grant 100	OFR 5573	
Fralick, P. W., Miall, A. D.	1982	Sedimentology of Huronian Deposits, Including Uranium Bearing Rocks, Grant No. 84	OFR 5375	
Franklin, J. M., et al	1983	Lead Isotope Studies in Superior and Southern Provinces	G.S.C. Bull. 351	
James, R. S. et al	1977	Geology of the Shakespeare-Dunlop Layered Gabbro-Anorthosite Intrusion	G.S.C. Paper 77-1A	pp. 411-414
Logan, W. E.	1849	Report on the North Shore of Lake Huron	G.S.C. Separate Rept. 392	
Moore, E. S.	1929	Ore Deposits Near the North Shore of Lake Huron	O.D.M. AR 38, pt. 7	pp. 1-51
Murray, A.	1849	On the Topography and Geology of Portions of the North Shore of Lake Huron, French River and the Manitoulin Islands	G.S.C. Rept. of Progress	
Quirke, T. T.	1917	Espanola District, Ontario	G.S.C. Mem. 102	
Thomson, J. E.	1960	Uranium and Thorium Deposits at the Base of the Huronian System in the District of Sudbury	GR 1	
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		
Boissonneau, A. N.	1968	Glacial History of Northeastern Ontario II. The Timiskaming-Algoma Area	C.J.E.S. Vol. 5	pp. 97-109
Cooke, H. R.	1951	Sulphide Deposits West of Sudbury; B.Sc., Queen's University	MP 2	

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Fox, J. S.	1970	Petrological Study of Chloritoid and Staurolite Bearing Rocks Agnew Lake, Ontario	Sudbury Theses File	
Ginn, R. M.	1960	The Relationship of the Bruce Series to the Granites of the Espanola Area	Sudbury Theses File	
Hadley, D. G.	1968	The Sedimentology of the Huronian Formation Ontario and Quebec	Sudbury Theses File	
Long, D. G.	1978	Depositional Environments of a Thick Proterozoic Sandstone: the (Huronian) Mississagi Formation of Ontario, Canada	C.J.E.S. Vol. 15	pp. 190-206
Quirke, T. T.	1915	Geology of Espanola District, Ontario; Ph.D., University of Chicago	MP 2	
Siemiatkowska, K. M.	1970	Bibliography of Huronian Geology Covering the Region from Sault Ste. Marie to the Grenville Front	Sudbury Theses File	
Young, D. A.	1962	Radioactive Conglomerates of the Agnew Lake Area, District of Sudbury, Ontario	Sudbury Theses File	
Young, G. M.	1981	Diamictites of the Early Proterozoic Ramsey Lake and Bruce Formations, North Shore of Lake Huron, Ontario. Earth's Pre-Pleistocene Glacial Record.	Cambridge University Press	pp. 813-816

GDIF FORM NO.9

NOTES AND ADDENDA

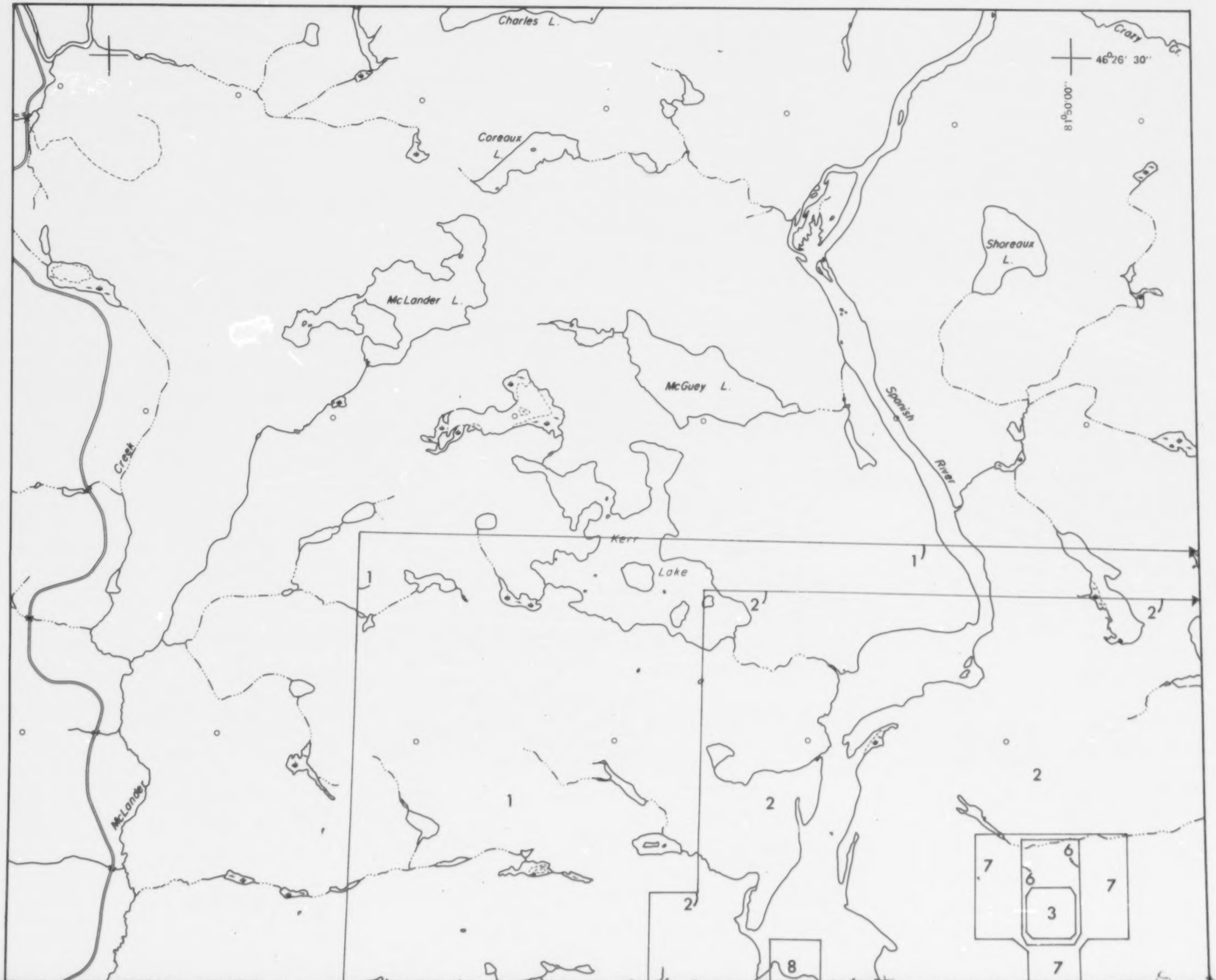
Aerial Photographs Index

Scale 1" = ¼ mile

Sudbury Photos

Year	Roll	Line	Number
1959	9	4618	31 - 36
	10	4617	107 - 112
	10	4616	31 - 36
	12	4615	66 - 72
1946	19	159	12
	18	160	12
	19	161	5 - 11

GDIF FORM NO.10



Ministry of Northern Development and Mines

Ontario

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 418

(Map 1 of 2)

DUNLOP TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 418

(Map 1 of 2)

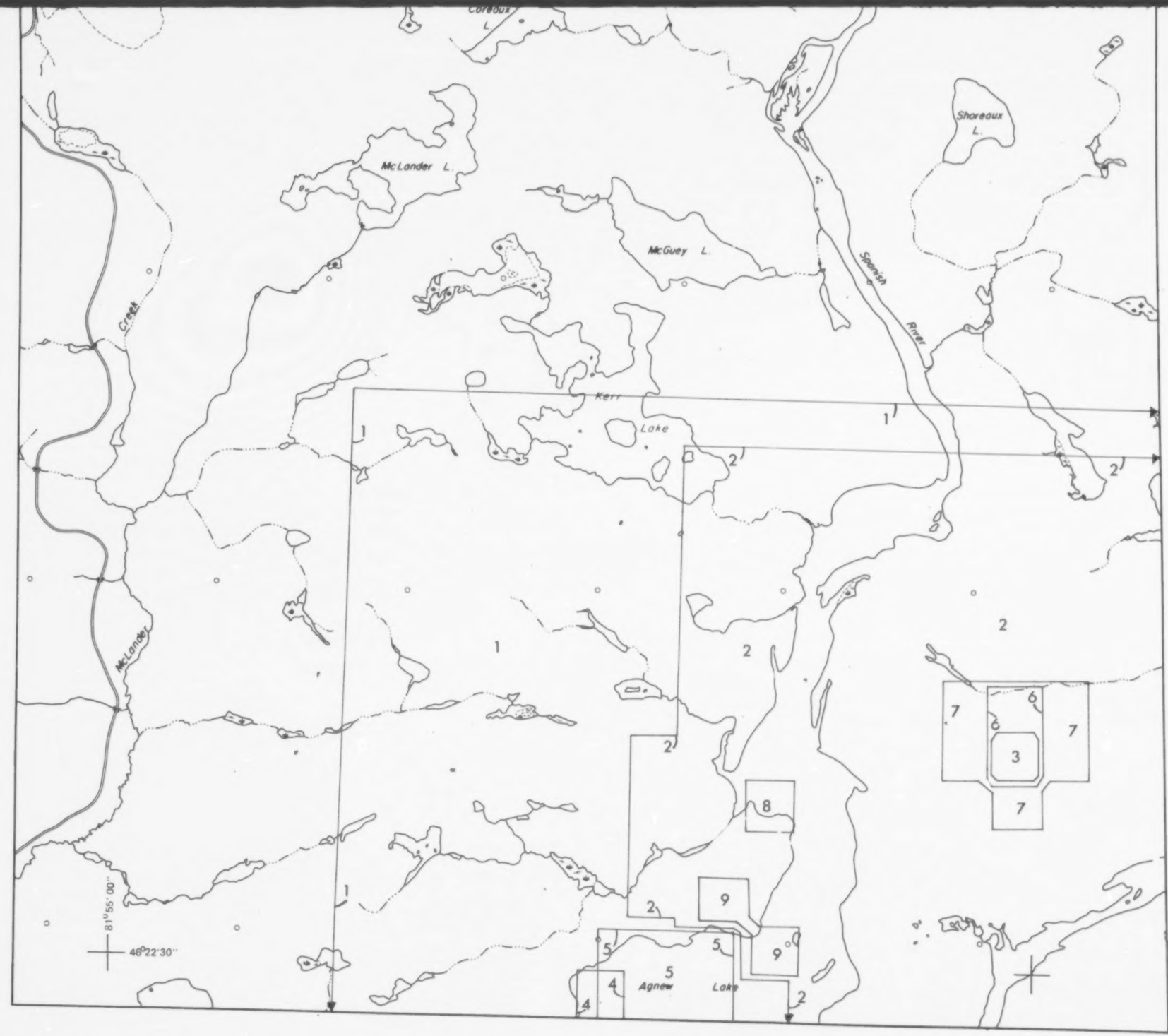
DUNLOP TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



EXPLORATION DATA FILE AREAS

■ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

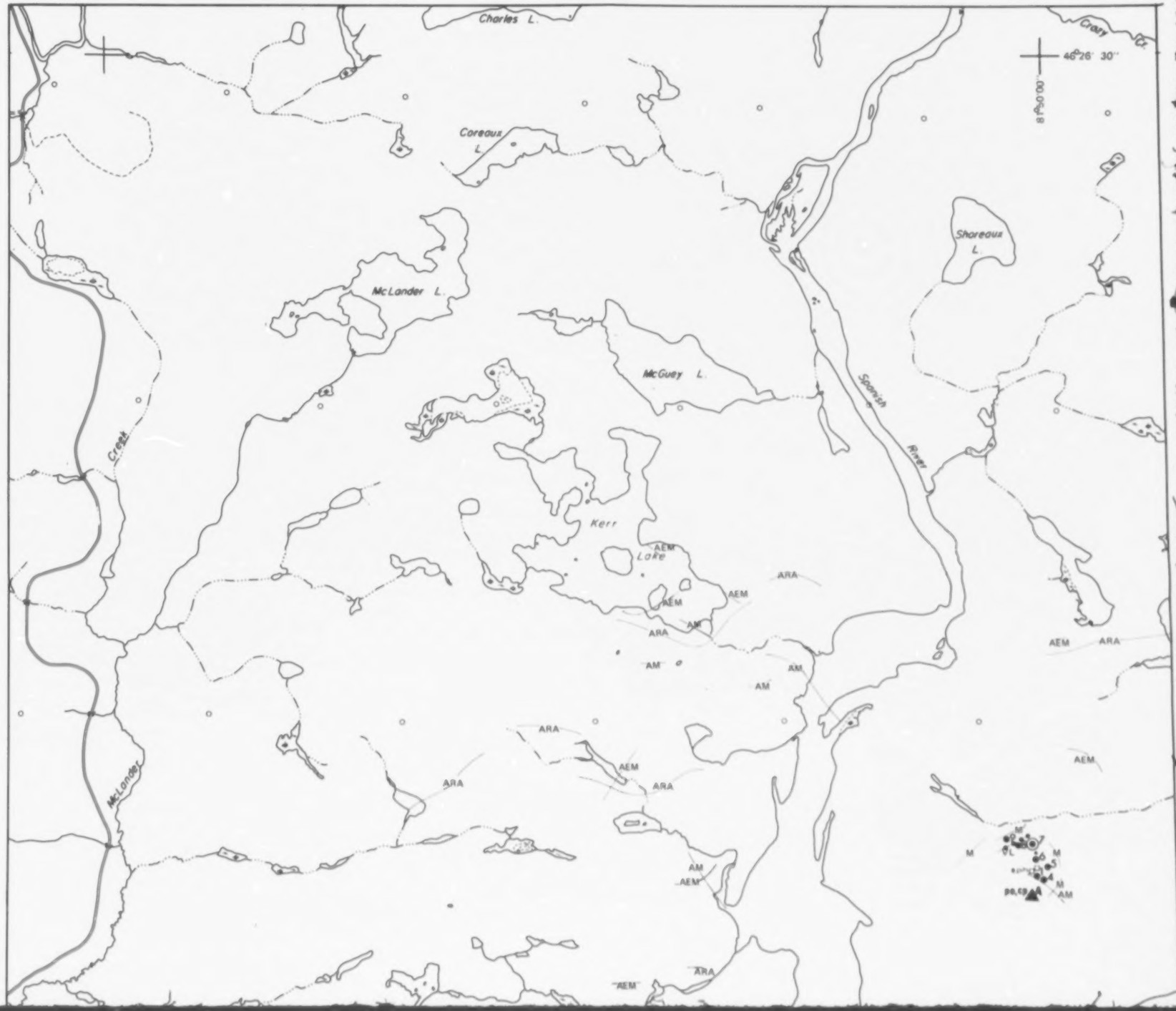
- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

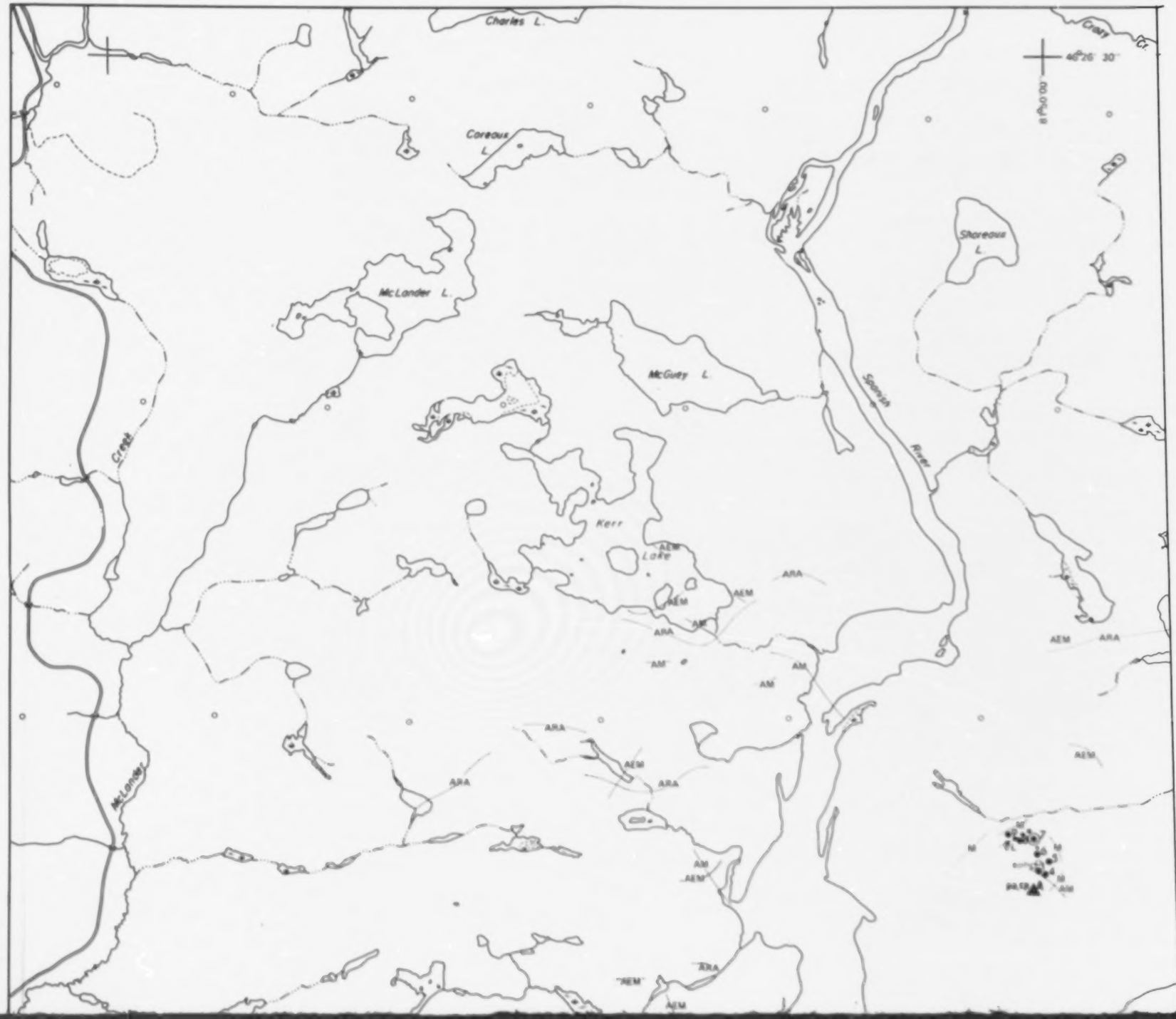
GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- ARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio-frequency magnetic anomaly
  (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly
- AEM — AirborneElectromagnetic Anomaly
  Conductor Axis

MISCELLANEOUS DATA

- Trenching, pit
- Rock quarry
- Adit
- Sand and/or gravel pit





Ministry of Northern Development and Mines

Ontario

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 418

(Map 2 of 2)

DUNLOP TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized float with reference letter
- Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number

Age dating material sampling site, with reference number

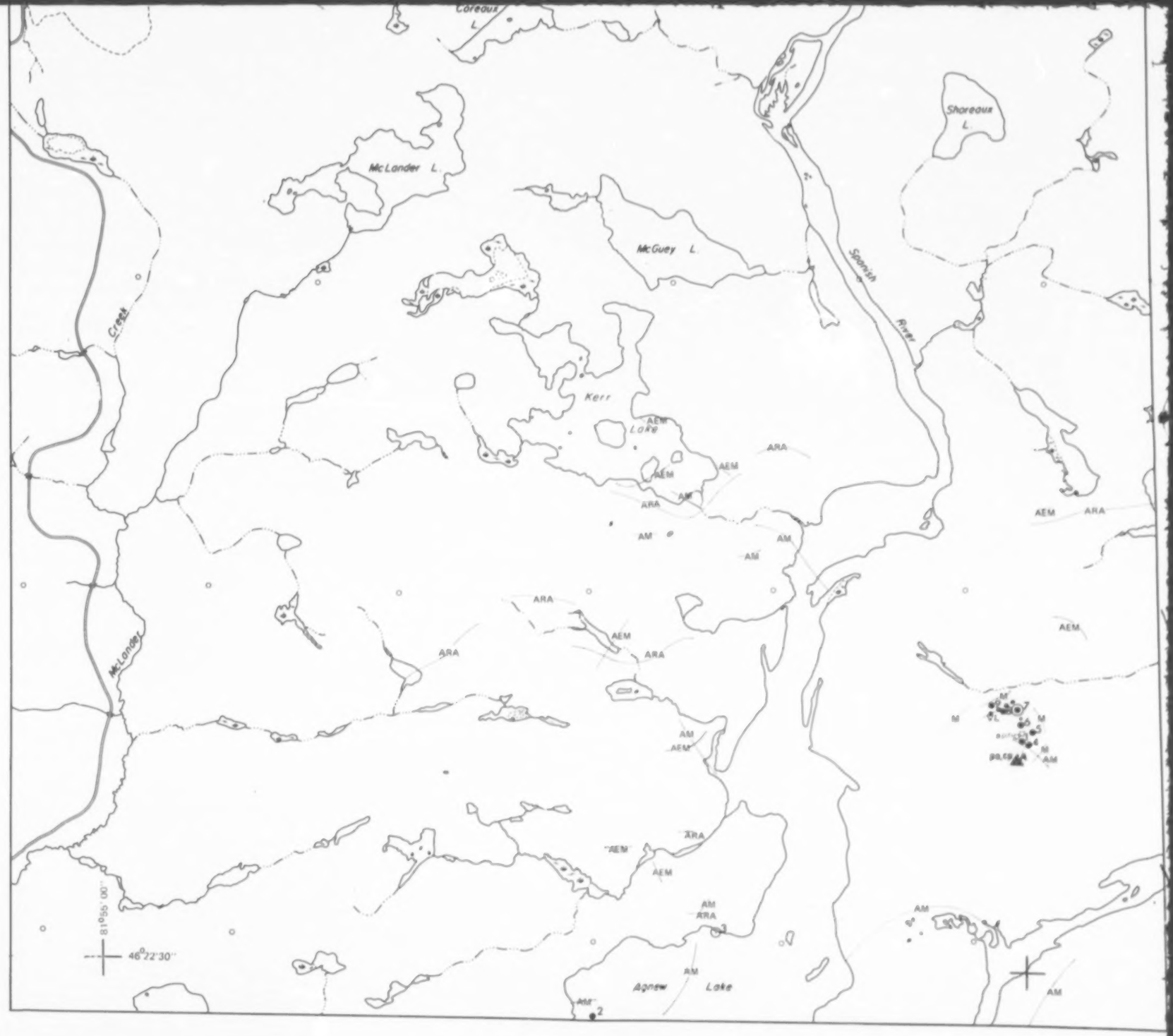
GEOPHYSICAL ANOMALIES

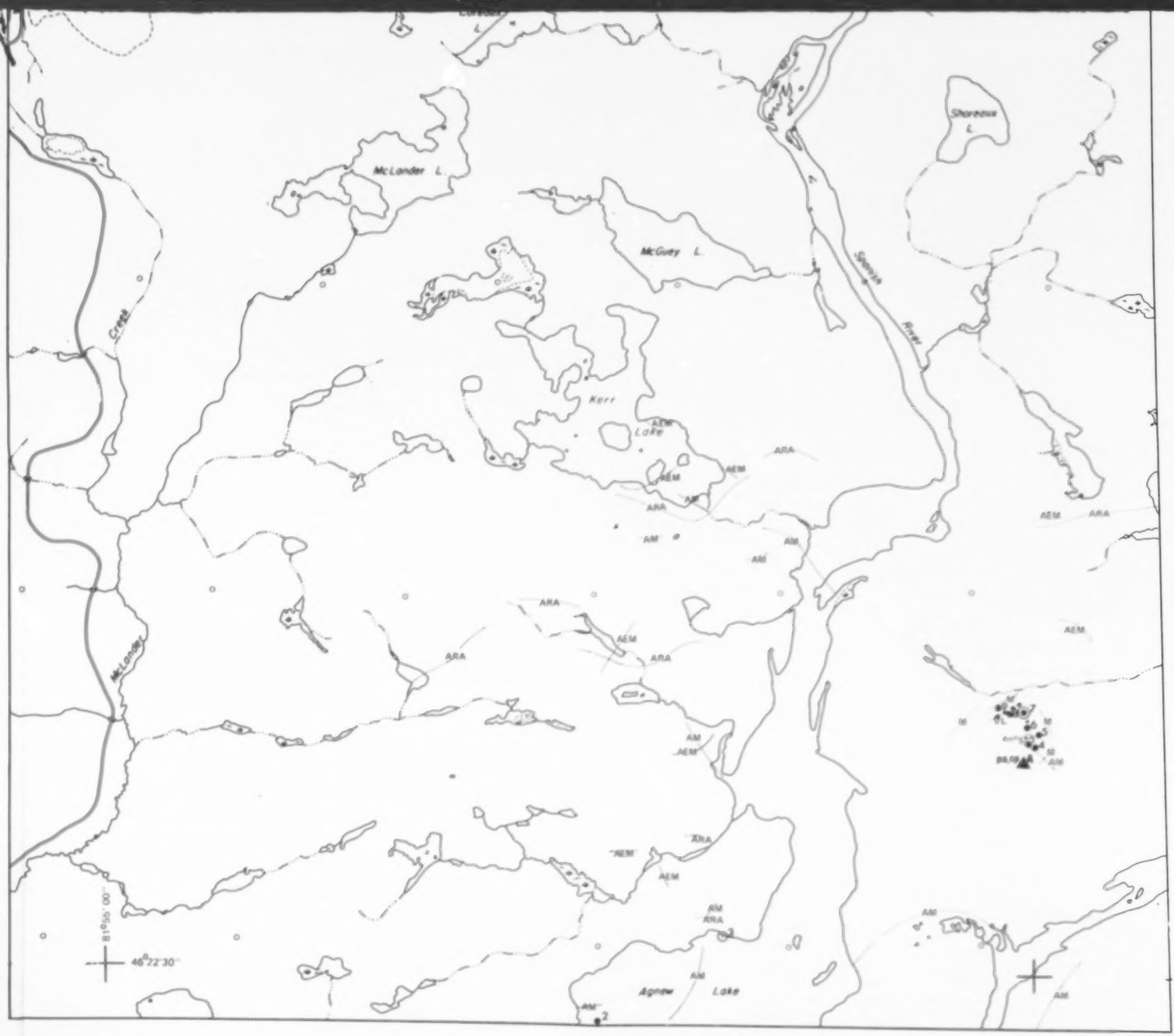
- Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- Airborne radiometric anomaly
- Ground magnetic anomaly
- Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16)
- Ground radiometric anomaly
- Induced polarization anomaly
- Self potential anomaly
- Audio-frequency magnetic anomaly
  (total intensity)
- Resistivity anomaly
- Gravity anomaly
- AirborneElectromagnetic Anomaly
  Conductor Axis

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.





ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 418

(Map 2 of 2)

DUNLOP TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ■ cp A. — Mineral occurrence at surface, with reference letter
- □ Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- □ Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- □ cp A. — Mineralized float with reference letter
- □ cp A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- ■ 2 — Location of single drillhole, with reference number
- ■ 2 — Location of closely spaced group of drillholes, with reference number
- ■ ? 2 — Drillhole, exact location uncertain, with reference number
- □ — Property with underground drillholes in this general area, with reference number
- □ 2 — Property with drillholes which have not been plotted on map, with reference number
- □ ⊕ 2 — Reverse circulation drillhole; churn drilling, with reference number